

**FIG.** 1

#### **ASSAY OVERVIEW**

**GENOMIC DNA** 

PCR AMPLIFICATION (BIOTINYLATED PRIMER)

**BIOTINYLATED AMPLICON** 

**ELECTRONIC ADDRESSING** 

MULTIPLE PATIENT SAMPLE ARRAY

**ELECTRONIC HYBRIDIZATION** 

DUAL FLUORESCENT ALLELE SPECIFIC REPORTERS

**ELECTRONIC STRINGENCY** 

IMAGING, QUANTITATION AND GENOTYPING

FIG. 2



F1G. 3

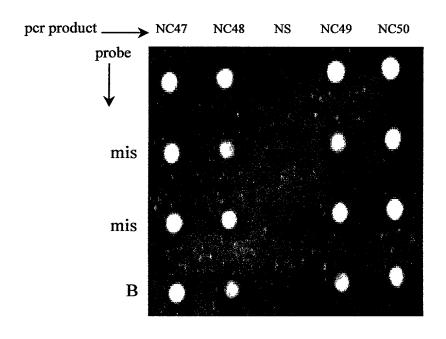


FIG. 4A

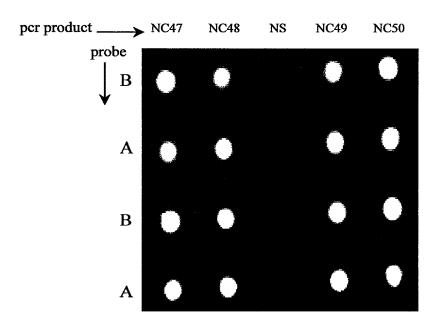


FIG. 4B

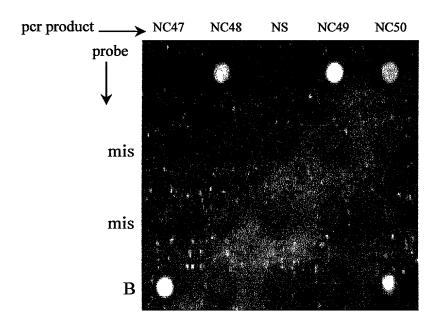


FIG. 4C

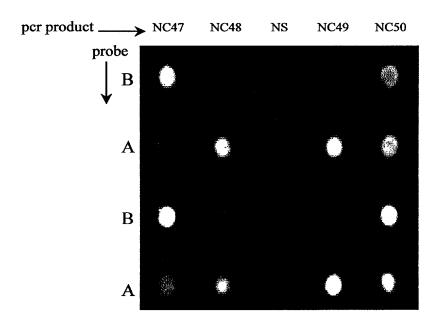
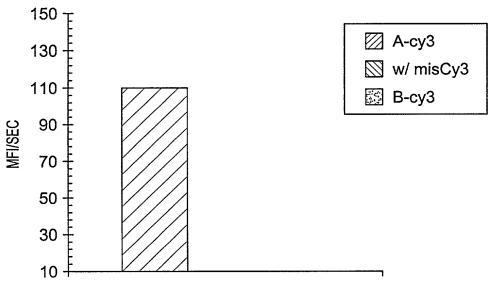


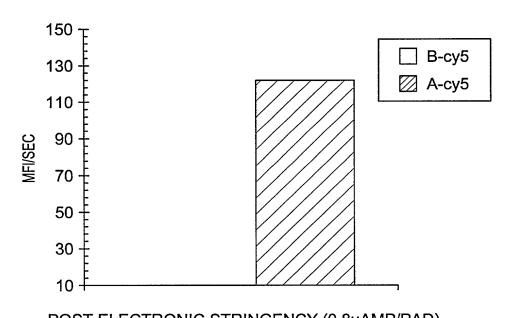
FIG. 4D

6/20 Cy3 IMAGE OF SAMPLE NC49



POST ELECTRONIC STRINGENCY (0.8uAMP/PAD)

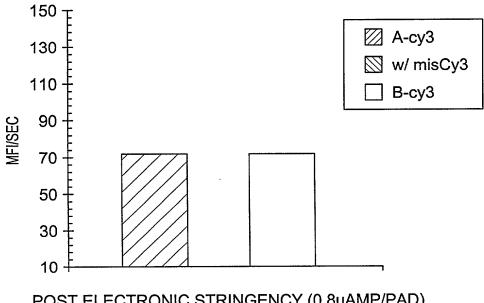
 $FIG.\ 5A$  Cy5 IMAGE OF SAMPLE NC49



POST ELECTRONIC STRINGENCY (0.8uAMP/PAD)

FIG. 5B

## Cy3 IMAGE OF SAMPLE NC50



POST ELECTRONIC STRINGENCY (0.8uAMP/PAD)

FIG. 6A

## Cy5 IMAGE OF SAMPLE NC50

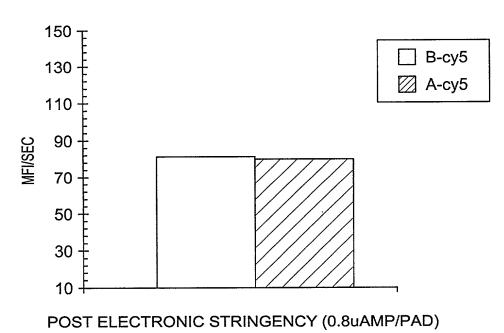
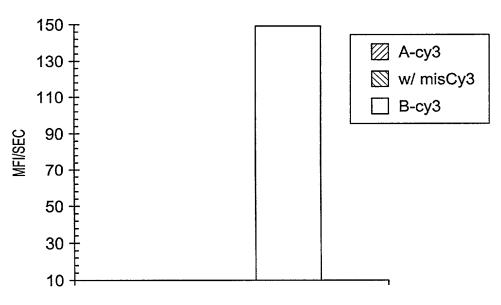


FIG. 6B

#### Cy3 IMAGE OF SAMPLE NC47



POST ELECTRONIC STRINGENCY (0.8uAMP/PAD)

FIG. 7A

#### Cy5 IMAGE OF SAMPLE NC47

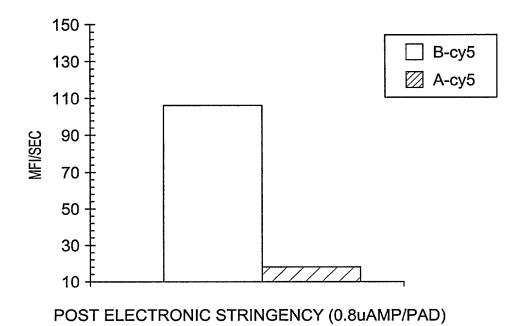


FIG. 7B

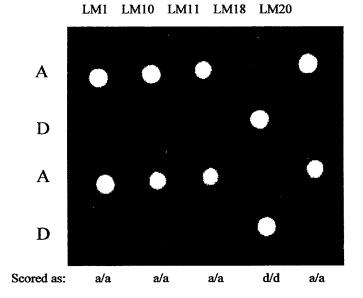


FIG. 8A

FIG. 8B

## IL-1 $\beta$ T/T identification

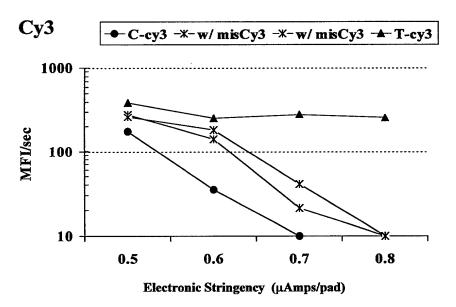


FIG. 9A

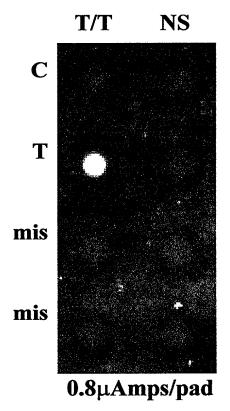


FIG. 9B

# IL-1 $\beta$ T/T identification

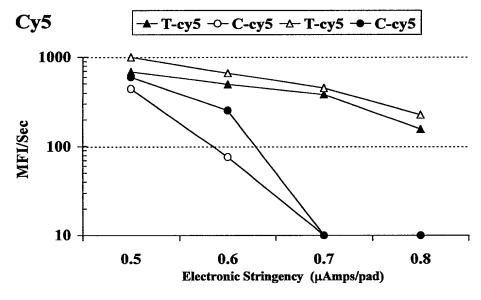
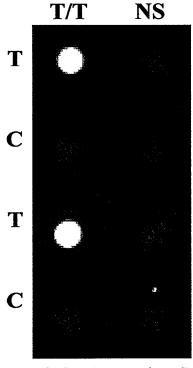


FIG. 10A



 $\textbf{0.8} \mu \textbf{Amps/pad}$ 

FIG. 10B

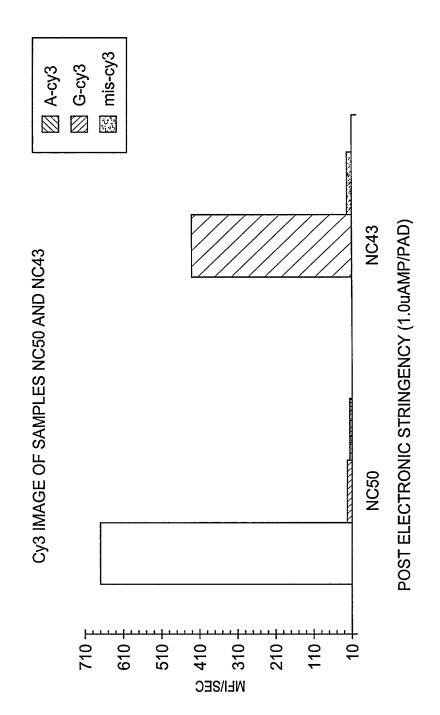


FIG. 11A

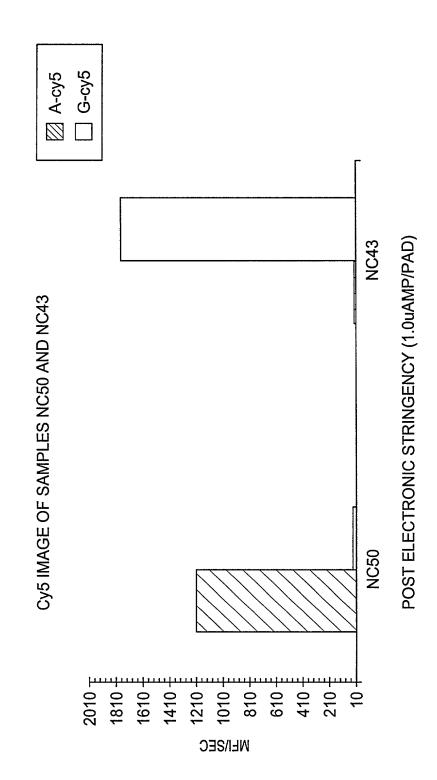
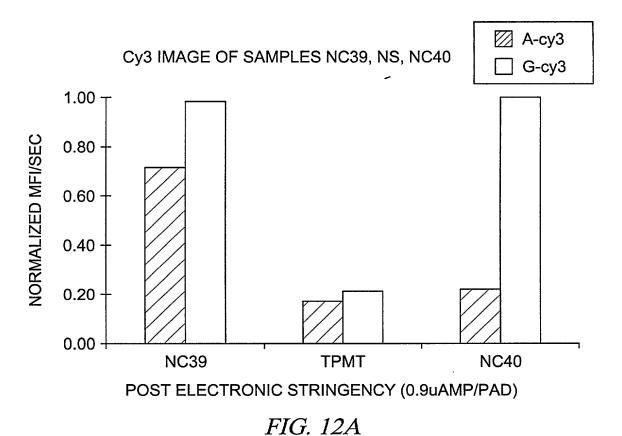
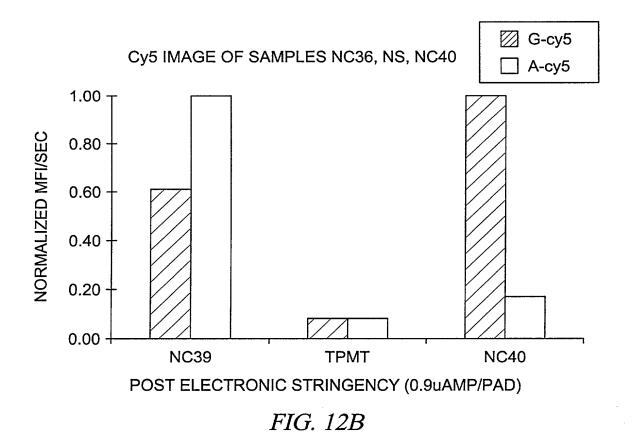


FIG. 11B





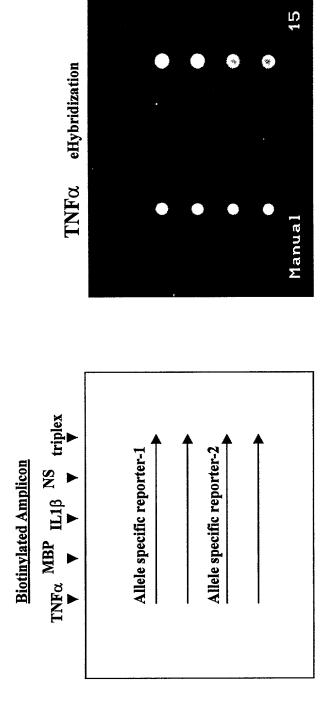
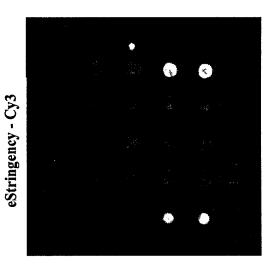


FIG. 13B

FIG. 134



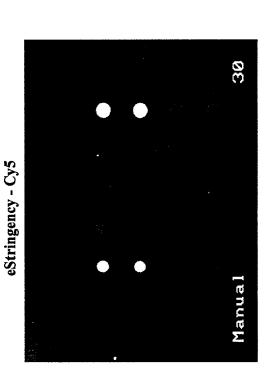


FIG. 13D

FIG. 13C

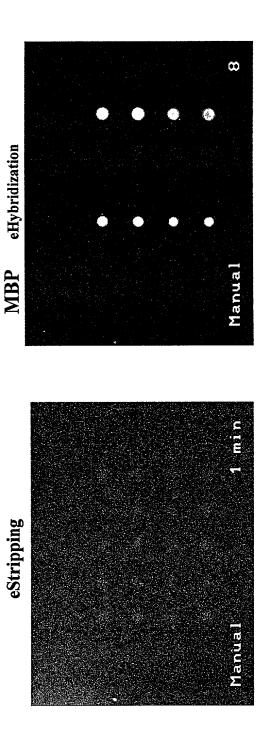
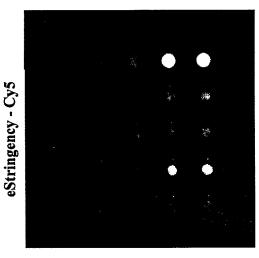
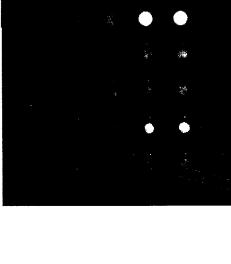


FIG. 13F





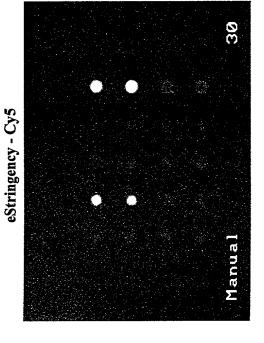


FIG. 13H

FIG. 13G

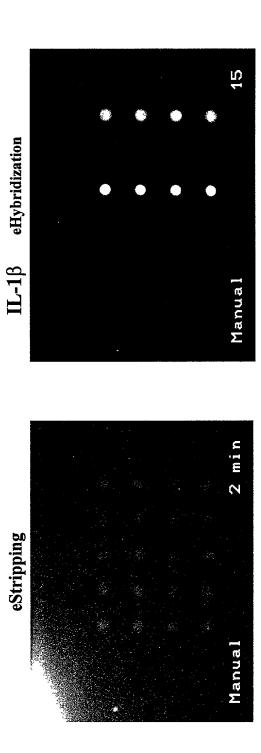
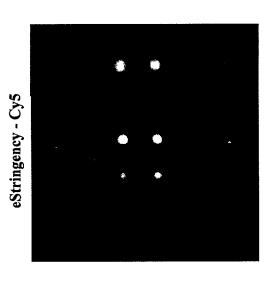


FIG. 13J

FIG. 131



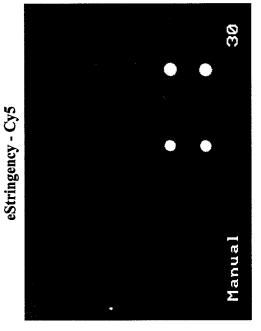


FIG. 13L

FIG. 13K